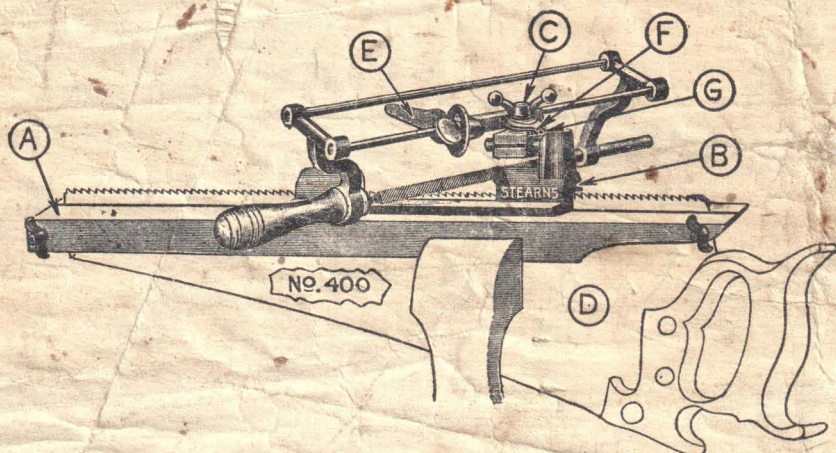


"OVERHANGING" SAW FILING TOOL



Follow these instructions carefully when you use this tool and you will be able to file any hand saw with ease and speed. Refer to the picture to identify the parts of the tool as they are mentioned in the instructions.

YOU CAN USE THIS TOOL PROPERLY ONLY WITH THE AID OF A SAW CLAMP. If you do not have a clamp, you can easily make one. A clamp similar to the one shown in the picture is both adequate and desirable. Use two small boards 32 inches long, $1\frac{1}{2}$ inches wide and $\frac{3}{8}$ inch thick. Hold the boards together and drill a hole through both of them at each end. Now slip a bolt through each hole and put a washer and wing nut on the end of each bolt. Make sure that the upper surface (A) of the clamp is perfectly smooth and flat.

When you wish to file a saw, fasten it securely in the saw clamp with the teeth projecting $\frac{3}{8}$ inch above the upper surface of the clamp. Now fasten saw and clamp in a vise (preferably a bench vise) with the saw handle to the right and the teeth at the top. Put filer in position with base (B) resting on the upper surface of the clamp and the saw teeth projecting through the long slot at the bottom of the filer base.

HOW TO FILE A CROSSCUT SAW

By means of the wing nut (C) and the pivot at the wing nut, adjust the file so that it fits the bevel on the first tooth, at the handle end of the blade (D). It may also be necessary to adjust the file to the correct angle. Do this by loosening the nut at the file handle and turning handle until a side of the file corresponds to the pitch of the tooth. Adjust arm (E) so that you will file each tooth to the correct depth. Be sure that all nuts at the places where the adjustments were made, are tight, so the adjustments cannot change while you are filing. Now start to file.

File only on the forward stroke (away from you) raising the file away from the tooth on the return stroke. First file the outside face of the first tooth from the handle. Then skip a tooth and file the corresponding face on the third tooth. Continue to file this face on the alternate teeth until you have reached the other end of the blade.

Return the filer to the handle end of the saw. Note the position of the pointer (F) on the index (G). Then loosen the wing nut and turn the file at the pivot until the pointer is on the corresponding mark on the other side of the index. When you have made this adjustment, file the other face of the same teeth that you have just filed.

Now lift the filing tool off the wooden clamp, loosen the vise and turn the clamp and saw around so that the handle of the saw is on the left. Then, starting with the second tooth from the handle, make the adjustments on the tool and proceed as before. Be sure to file both sides of each tooth.

HOW TO FILE A RIP SAW

Be sure that the saw and clamp are held securely in vise with the saw handle to the right. Adjust the filing tool so that the pointer is on the center of the index. Rip saw teeth have no bevel. By use of the screw at the file handle, set the file to fit the pitch of the teeth. Now file the teeth straight across at right angles to the side of the saw blade. You can file all rip saw teeth from the same side of the saw and it will not be necessary to change any adjustments on the filer except the screw at the file handle when you wish to file the other side of the teeth.

FILE YOUR SAW FREQUENTLY

If you will file your hand saw teeth at frequent intervals when they are being used a good deal, you should have no trouble with them. With this tool your work will be much quicker and better than it would if you did the work by any other method. Be sure to oil the moving parts occasionally and keep it in a dry place. Dampness will cause it to rust and deteriorate.

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